

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/942,005	08/28/2001	Larry Edward Schessel	1992P07463US 09

EXAMINER
Ronald G. Foster

Response To Restriction Requirement

ART UNIT	PAGE NUMBER
2645	3

AMENDMENTS TO THE CLAIMS

In the claims, please make the following amendments:

Claims 1-4 and 7-38 have been previously cancelled.

Claims 5, 6, 39-42, 53-61 and 66-76 are withdrawn in response to the outstanding restriction requirement.

1-4. Cancelled

5. (Withdrawn) The method of claim 39, wherein at least one requested subroutine program comprises a plurality of additional subroutine programs that are arranged in a predetermined order of activation.

6. (Withdrawn) The method of claim 39, wherein at least one requested subroutine program comprises a plurality of additional subroutine programs that undergo an arbitration for the activation of a respective additional subroutine program prior to the arbitrating step of the method.

7-38. (Cancelled)

39. (Withdrawn) A method of processing calls in a call processing system comprising:

executing basic call software having a plurality of discrete trigger points, the discrete trigger points being reached during execution of the basic call software;

accessing, at each one of the plurality of discrete trigger points in the basic call software, a database of information regarding each one of the discrete trigger points;

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/942,005	08/28/2001	Larry Edward Schessel	1992P07463US 09
ART UNIT	PAPER NUMBER	EXAMINER	
2645	1	Ronald G. Foster	

determining, based on the accessed data, a subset of capabilities of a plurality of capabilities permissible at the said one of the plurality of discrete trigger points; arbitrating among the subset of capabilities to select capabilities; and performing tasks associated with the selected capabilities.

40. (Withdrawn) The method of claim 39, wherein the performing comprises suspending the execution of the basic call software and executing subroutine programs in a priority order resulting from the arbitrating.

U
Cmt

41. (Withdrawn) The method of claim 40, wherein the accessing and the arbitrating are performed independently of the subroutine programs performing the tasks associated with the selected capabilities.

42. (Withdrawn) The method of claim 39, wherein the data stored in the memory is arranged in an administrable format whereby the data is capable of being customized so as to enable the performing to be customized.

43. (Previously Added) In a call processing system having a basic call processing program implementing a basic call chain and a plurality of feature programs optionally executed at a plurality of trigger points during execution of the basic call processing program, a memory for storing data relating feature services to the basic call chain, and a feature interaction control program that accesses the memory for storing, a method of implementing at least one feature service for a call connection between subscribers of the call processing system comprising:

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/942,005	09/28/2001	Larry Edward Schessel	1992P07463US 09
ART UNIT	PAPER NUMBER	EXAMINER	
2645	1	Ronald G. Foster	

- a. executing, at each trigger point, the feature interaction control program;
- b. determining, based upon data in the memory for storing, which feature services are available to be accessed at a respective trigger point during the execution of the basic call program;
- c. blocking certain available feature services from being accessed at the respective trigger point based on feature services that are currently accessed; and
- d. accessing, at the respective trigger point, each respective feature service which is available to be accessed and is not blocked, in a priority order for the feature services established at the most recent formatting of the system.

Q1

cm+

44. (Previously Added) The method of claim 43, wherein the accessing comprises performing, at the respective trigger time, an action by the basic call program that is directed by the stored data pertaining to the respective trigger time and to each respective feature service which is available to be accessed and is not blocked, said actions being performed in the same priority order as the priority order of the feature services.

45. (Previously Added) The method of claim 43, wherein the accessing comprises accessing and executing, at the respective trigger time, each respective feature service that is available to be accessed and is not blocked by feature services that are currently accessed, in the priority order for feature services.

46. (Previously Added) The method of claim 43, wherein the accessing comprises:

- i. determining a highest priority ordered feature service that can be accessed at the respective trigger time;

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/942,005	08/28/2001	Larry Edward Schessel	1992P07463US 09
ART UNIT	PAPER NUMBER	EXAMINER	
2645	1	Ronald G. Foster	

ii. performing a task by the basic call program that is directed by the stored data pertaining to the respective trigger time and to the highest priority ordered feature service;

iii. blocking certain feature services, that are available to be accessed and that are not blocked by feature services that are currently accessed, from being accessed at the respective trigger time based on the stored data pertaining to the highest priority ordered feature service; and

iv. repeating steps i, ii, and iii for the remainder of the feature services, that are available to be accessed at the respective trigger time and that are not blocked as a result of step iii, in succeeding priority order.

cl
amt

47. (Previously Added) The method of claim 46, wherein the performing a task comprises accessing and executing by the basic call program of the highest priority ordered feature service.

48. (Previously Added) The method of claim 43, wherein each feature service comprises feature call software that governs operations of a particular feature for a call connection between subscribers of the system.

49. (Previously Added) The method of claim 43, wherein the determining comprises accessing and operating on data pertaining to each feature service that is provided by the system and is requested by a respective system subscriber, said data being arranged in a customized format.

50. (Previously Added) The method of claim 43, wherein the determining comprises accessing and operating on data pertaining to each feature service that is provided by the

APPLICATION NO.	FILE DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/942,005	08/28/2001	Larry Edward Schessel	1992P07463US 09
ART UNIT	PAPER NUMBER	EXAMINER	
2645	1	Ronald G. Foster	

system and is requested by a respective system subscriber, said data being arranged in a logical table and bit map format.

51. (Previously Added) The method of claim 43, further comprising defining at least one trigger point during the execution of the basic call software at which a feature service can be implemented.

52. (Previously Added) The method of claim 43, further comprising defining at least one trigger point during the execution of the basic call software at which a respective feature service can be implemented and introducing respective data to the memory.

C1
Cmt.

53. (Withdrawn) In a call processing system comprising a processor operating both basic call software and feature software, and memory storing data pertaining to the interaction of the basic call software with the feature software, and feature interaction control software, a method of executing feature software comprising:

a. executing, upon each feature request by the basic call software, the feature interaction control software having a first data operation to determine the respective call features that can be executed; and

a second data operation to inhibit certain respective call features from being executed based on call feature software that is currently being executed;

b. performing a data search of the noninhibited call features to determine the highest priority-ordered call feature; and

c. executing the call feature software for the respective call feature determined to be a highest priority-ordered, said priority order being established prior to operation of the system.

APPLICATION NO.	FILED DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/942,005	08/28/2001	Larry Edward Schessel	1992P07463US 09
ART UNIT	PAPER NUMBER	EXAMINER	
2645	1	Ronald G. Foster	

54. (Withdrawn) The method of claim 53, further comprising:

- a. executing a third data operation to inhibit certain respective call features from being executed based on the execution of the call feature software for the respective call feature determined to be the highest priority-ordered; and
- b. repeating the steps of executing a third data operation for each remaining call feature that is not inhibited in succeeding priority order.

55. (Withdrawn) The method of claim 53, wherein the executing the first data operation comprises determining a first common data set between a data bit map that defines the call features subscribed by the respective subscribers and a data table row that defines the execution of a respective call feature at the feature request.

4
CMT

56. (Withdrawn) The method of claim 53, wherein the executing the first data operation comprises determining a first common data set between a data bit map that defines the call features subscribed by the respective subscribers and a data table row that defines the execution of a respective call feature at the feature request and determining the entire data set between said common data set and a data bit map that defines the call features that execute other call features upon execution.

57. (Withdrawn) The method of claim 56, wherein the executing the second data operation comprises determining, for each respective call feature that can be executed, a second common data set between an entire data set that defines all the respective call features that can be executed and a first data table row that defines the blocking of a respective call feature based on call feature software currently being executed.

APPLICATION NO.	FILED DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/942,005	08/28/2001	Larry Edward Schessel	1992P07463US 09
ART UNIT	PAPER NUMBER	EXAMINER	
2645	1	Ronald G. Foster	

58. (Withdrawn) The method of claim 57, wherein the performing a data search comprises performing a bit map search of the second common data set between said entire data set and a blocking data table row.

59. (Withdrawn) The method of claim 57, wherein the executing the call feature software comprises executing, for the respective highest priority-ordered call feature, the action defined by a second data table row that defines the execution of a respective call feature at the feature request.

ay
amt.
60. (Withdrawn) The method of claim 54, wherein the executing the third data operation comprises determining, for call feature software newly executed, a third common data set between said entire data set that defines the respective call features that can be executed and a data table row that defines the blocking of a respective call feature based on call feature software newly executed.

61. (Withdrawn) The method of claim 60, wherein the repeating comprises determining that the third common data set is not a null set.

62. (Previously Added) A call processing system, having a processor and a memory, that establishes a call connection between subscribers and implements at least one feature service for the call connection, comprising:

- a. means for establishing a call connection between system subscribers;
- b. means for triggering at least one feature service in a manner independent of the feature service to be triggered;
- c. means for accessing respective feature service data stored in the memory and arranged in an administrable format for use by the means for triggering; and

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/942,005	08/28/2001	Larry Edward Schessel	1992P07463US 09
ART UNIT	PAPER NUMBER	EXAMINER	
2645	1	Ronald G. Foster	

d. means for directing, upon the triggering of a feature service, the interaction of a respective feature service with the operation of the call connection.

63. (Previously Added) The call processing system of claim 62, wherein the means for triggering comprises:

- a. means for determining which feature services are available to be implemented at the predefined trigger time during the call connection; and
- b. means for implementing each feature service which is determined to be available in a priority order established at a time prior to system operation.

q
Cmt

64. (Previously Added) The call processing system of claim 62, wherein the means for directing comprises means for executing the feature service during the operation of the call connection.

65. (Previously Added) The call processing system of claim 62, wherein the means for directing comprises means for executing a task by the processor as directed by the respective feature service data.

66. (Withdrawn) A call processing system for telecommunications network that establishes call paths, via transmission lines, between a plurality of subscriber telecommunications terminals, comprising:

- a. means for establishing and operating a connection of a call path between respective subscriber terminals;
- b. means for providing a feature service for the respective call path;
- c. a memory that stores data regarding the network, the system subscribers, and the feature service and arranges the data in a customizable format; and

APPLICATION NO.	09/942,005	FILING DATE	08/28/2001	FIRST NAMED INVENTOR	Larry Edward Schessel	ATTORNEY DOCKET NO.	1992P07463US 09
ART UNIT	2645	PAPER NUMBER	1			EXAMINER	Ronald G. Foster

d. means for triggering the means for providing a feature service to provide certain feature services based on data stored in the memory and for interacting the respective feature service with the call path based on data stored in the memory, said means for triggering and for interacting being independent of the feature service provided.

67. (Withdrawn) The call processing system of claim 66, wherein said means for providing a feature service comprises means for providing a feature service for a respective call path from a location remote from the call processing system.

68. (Withdrawn) The call processing system of claim 66, wherein said means for triggering and for interacting comprises means for arbitrating the order of the respective features in interacting with the call path.

69. (Withdrawn) A method for triggering features in a call processing system having a processor and a memory, the method comprising:

creating logical tables in the memory having data that establishes a relationship among a plurality of features available in the system and correlating the plurality of features to a plurality of trigger points;

executing feature trigger software at each of the plurality of trigger points, the feature trigger software being independent of each one of the plurality of features being triggered, the feature trigger software accessing the logical tables in the memory to determine a subset of unactivated features of the plurality of features triggerable at the respective trigger point;

activating the triggerable features;

performing tasks associated with the activated features in response to the executing of the feature trigger software.

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/942,005	08/28/2001	Larry Edward Schessel	1992P07463US 09
ART UNIT	PAPER NUMBER	EXAMINER	
2645	1	Ronald G. Foster	

70. (Withdrawn) The method of claim 69 further comprising:
 assigning a priority to each one of the plurality of features;
 activating a feature having a high priority relative to other features;
 updating the subset of unactivated triggerable features, if not null, at the respective
 trigger point in response to the activating of a feature.

71. (Withdrawn) The method of claim 70 further comprising repeating the activating and
 updating for a feature having the next highest priority.

CI
GM
72. (Withdrawn) The method of claim 71 further comprising adding features without
 modifying the feature trigger software.

73. (Withdrawn) The method of claim 72 whereby the adding of features comprises adding
 data to the logical tables.

74. (Withdrawn) A call processing system having a processor and a memory and having
 basic call software and feature software for implementing a plurality of features, the feature
 software being executed at a plurality of trigger points in the basic call software, the call
 processing system further comprising:

logical tables stored in the memory having data that establishes a relationship among
 the plurality of features and correlating the plurality of features to the plurality of trigger points;
 a feature trigger software routine executed at each of the plurality of trigger points, the
 feature trigger software accessing the logical tables for determining a subset of the plurality of
 features that are unactivated and triggerable, the feature trigger software routine controlling
 execution of the feature software.

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/942,005	08/28/2001	Larry Edward Schessel	1992P07463US 09
ART UNIT	PAPER NUMBER	EXAMINER	
2645	1	Ronald G. Foster	

75. (Withdrawn) The system of claim 74 wherein the feature trigger software is independent of the plurality of features being triggered whereby the feature trigger software can accommodate, without modification, an addition features.

*Cond
ci*

76. (Withdrawn) The system of claim 75 wherein the logical tables comprise:

- a triggered feature blocking table;
- a trigger point table;
- a feature priority list; and
- a subscriber feature bitmap.